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(54) DISTRIBUTED FILE MANAGEMENT METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To accelerate parallel disk device access at the time of I/O requests in a method of distributing and arranging a plurality of logic files to disk units by a striping file mechanism.

SOLUTION: In this method of distributing and arranging the logic file 603 to sub-filing systems 614-617, stride groups SG0-SG3 which are the sets of file blocks are generated so as to arrange the file blocks FB0-FB15 of the same file in the batch area of the disk devices 610-613 and they are written altogether to the respective sub-filing systems by the stride group unit. Also, when accessing the file block, the successive file blocks FB4-FB15 are looked ahead to the buffer cache 604 of a master filing system 605, the number of times of requesting read to the sub-filing systems is reduced and file access is accelerated further.

